# PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 9775-031-228	FOR FURTHER ACTION	see Notification of (Form PCT/ISA/22	Transmittal of International Search Report 20) as well as, where applicable, item 5 below.		
International application No. PCT/US01/06997	International filing date (day/month/year) 05 MARCH 2001		(Earliest) Priority Date (day/month/year) 08 MARCH 2000		
Applicant FINISAR CORPORATION		10-10-10-1			
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.					
This international search report consis			port.		
It is also accompanied by a copy of each prior art document cited in this report.  1. Basis of the report  a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  the international search was carried out on the basis of a translation of the international application furnished to th Authority (Rule 23.1(b)).  b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international se was carried out on the basis of the sequence listing:  contained in the international application in written form.  filed together with the international application in computer readable form.  furnished subsequently to this Authority in computer readable form.  the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.  Certain claims were found unsearchable (See Box 1).  Unity of invention is lacking (See Box 11).  With regard to the title,  X the text is approved as submitted by the applicant.  the text has been established by this Authority to read as follows:					
5. With regard to the abstract, the text is approved as substant X the text has been establishe Box III. The applicant may, search report, submit comm	d, according to Rule 38.2() within one month from the tents to this Authority.	e date of mailing of t	his international		
6. The figure of the drawings to be put as suggested by the application because the applicant failed X because this figure better characteristics.	nt. to suggest a figure.	is Figure No. <u>*</u>	None of the figures.		

# INTERNATIONAL SEARCH REPORT

International application No. PCT/US01/06997

A. CLASSIFICATION OF SUBJECT MATTER				
1	01S 3/30, 3/083, 3/098 2/6, 18, 94			
	nternational Patent Classification (IPC) or to bot	h national classification and IPC		
B. FIELDS	SEARCHED			
Minimum docu	mentation searched (classification system followe	d by classification symbols)		
U.S. : 372.	2/6, 18, 94			
D				
selve Hef	searched other than minimum documentation t	o the extent that such documents are included in the fields		
Electronic data	base consulted during the international search (	name of data base and, where practicable, search terms used)		
	quarter wave plate, polarized, polarize, polarization	,		
		<del>,</del>	ļ	
		·		
C. DOCUM	IENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages Relevant to claim	No.	
Y U	JS 5,627,848 A (FERMANN et al.) 06	May 1997 (06.05.1997), see 1-23	1	
er	ntire document.	·		
	IC 5 440 570 A (OHANG 1) 05 G	1 1005 (05 00 1005)		
	IS 5,448,579 A (CHANG et al.) 05 Sece entire document.	eptember 1995 (05.09.1995), 1-23		
30	ce entire document.			
Y U	IS 5,276,701 A (SHIRASAKI) 04 Jan	uary 1994 (04.01.1994), see 1-23		
	ntire document.	, , , , , , , , , , , , , , , , , , , ,		
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Further of	documents are listed in the continuation of Box (	See patent family annex.		
• Special	categories of cited documents:	"T" later document published after the international filing date or prior date and not in conflict with the application but cited to understa	ity	
	ent defining the general state of the art which is not red to be of particular relevance	the principle or theory underlying the invention	ina	
"E" earlier d	document published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot considered novel or cannot be considered to involve an inventive s	be tep	
cited to	ent which may throw doubts on priority claim(s) or which is observables the publication date of another citation or other	when the document is taken alone "Y" document of particular relevance: the claimed invention cannot	Ì	
<del>-</del>	reason (as specified)  ontreferring to an oral disclosure, use, exhibition or other	"Y" document of particular relevance; the claimed invention cannot considered to involve an inventive step when the document combined with one or more other such documents, such combinated.	is	
means being obvious to a person skilled in the art			ion	
"P" document published prior to the international filing date but later "%" document member of the same patent family than the priority date claimed				
Date of the actual completion of the international search  Date of mailing of the international search report				
30 JUNE 2001 12 JUL 2001				
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT  Authorized officer Shaun S.   Appelled				
Box PCT Washington, D.C. 20231  TERESA M. ARROYO				
Facsimile No.	(703) 305-3230	Telephone No. (703) 305 - 0956		

#### INTERNATIONAL SEARCH REPORT

International application No. PCT/US01/06997

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

## **NEW ABSTRACT**

A laser apparatus (100), which generates laser light to be transmitted through an optical transmission system includes a laser (52) that emits light that is substantially linearly polarized, a housing (54) in which the laser is mounted, and a quarter wave retarder plate (102). The quarter wave retarder plate is disposed so that the emitted laser light passes through it prior to transmission of the emitted laser light through the optical transmission system. The quarter wave retarder plate causing the emitted light to become circularly polarized with a predefined handedness. The quarter wave retarder plate is also disposed so that light reflected back toward the laser passes through the quarter wave retarder plate a second time prior to reaching the laser, causing the reflected light to become linearly polarized with a linear polarization that is orthogonal to the polarization state of the light emitted by the laser.

- Comment on Abot.: 8/12/01 FION TREATY
Amend Prior to Rib. 19/12/01

	~	$\sim$ .		$\smile$
PATENT	COOPERATION	TR	EA	TY

#### From the INTERNATIONAL SEARCHING AUTHORITY

To: GARY S. WILLIAMS PENNIE & EDMONDS LLP 1155 AVENUE OF THE AMERICAS NEW YORK, NY 10036

RECEIVED RECORDS

REFERRED TO LIVEYO REC'D Williams JUL 1 6 2001

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

UL 17 2001

Pennie & Edmonds

(PCT Rule 44.1)

(day/month/year) 12 JUL 2001		
FOR FURTHER ACTION See paragraphs 1 and 4 below		
International filing date (day/month/year)		
05 MARCH 2001		

1. X The applicant is hereby notified that the international search report has been established and is transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated

no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

The applicant is reminded of the following: 4. Further action(s):

Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in rules 90 bis 1 and 90 bis 3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the ISA/US  Commissioner of Patents and Trademarks Box PCT  Washington, D.C. 20231	TERESA M. ARROYO
Facsimile No. (703) 305-3230	Telephone No. (703) 305 - 0956

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US01/06997

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	statement			
	Novelty (N)	Claims	NONE	YES
		Claims	1-23	NO
	Inventive Step (IS)	Claims	NONE	YES
		Claims	1-23	NO
	Industrial Applicability (IA)	Claims	1-23	YES

2. citations and explanations (Rule 70.7)

1

Claims 1-23 lack novelty and inventive step under PCT Article 38(2)-(3) as being anticipated by Nagano (US 6,014,359). Nagano discloses a laser apparatus (Figs. 1 and 5A) for generating laser light comprising a laser (101 and 1), a lens (104 and 5) disposed between the laser (101 and 1) and the optical transmission system (105 and 6), a quarter wave retarder plate (103 and 3) disposed between the laser (101 and 1) and a lens (104 and 5), a linear polarizer (102 and 2) adjacent a surface of the quarter wave plate (103 and 3) and a hermetically sealed housing (108 and see col. 6, lines 9-27) having a window formed of the quarter wave retarder plate (103 and 3).

NONE

Claims 1-23 meet the criteria set out in PCT Article 38(4), because the invention is useful to the industry.

Claims

NONE

#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing I amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty and of the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

## INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

## What parts of the international application may be amended?

The claims only.

The description and the drawings may only be amended during international preliminary examination under Chapter II.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

## Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

## What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confounded with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

#### NOTES TO FORM PCT/ISA/220 (continued)

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
  "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- 2. [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:

  "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or

  "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]:
  "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

# "Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

The statement should be brief, it should not exceed 500 words if in English or if translated into English.

It should not be confounded with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It should not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

#### In what language?

The amendments must be made in the language in which the international application is published. The letter and any statement accompanying the amendments must be in the same language as the international application if that language is English or French; otherwise, it must be in English or French, at the choice of the applicant.

# Consequence if a demand for international preliminary examination has already been filed?

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

# Consequence with regard to translation of the international application for entry into the national phase?

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.